

Date: Mon, 02 Feb 2004 16:32:12 -0600  
From: Jon Hawkins <hawkins@aps.anl.gov>  
Subject: [Fwd: RSPPC Meeting February 2nd MONDAY Discussions on PSS Gen.3 and Shutter Mode Kirk Key Vote]  
To: Nick Friedman <friedman@aps.anl.gov>, Roy Emerson <remerson@aps.anl.gov>, steve ross <skross@aps.anl.gov>, Dave Francis <francisd@aps.anl.gov>, Gomez Rafael <gomezr@aps.anl.gov>, Roberts Lorrie <lorrie@aps.anl.gov>, Ann Boron <boron@aps.anl.gov>, Nguyen Van <nguyen@aps.anl.gov>, Jon Behrndt <behrndt@aps.anl.gov>, jrf@aps.anl.gov, hogrefe@aps.anl.gov, Tom Dawson <tdawson@aps.anl.gov>  
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Organization: Advanced Photon Source, Argonne national Laboratory

SI Group,

Today the Radiation Safety Policy Committee (RSPC) voted to allow us to monitor the position of Kirk Keys used in mode shutters in the PSS generation 3 chain C. Thanks for those who helped in preparing this presentation to the RSPC.

Jon Hawkins

----- Original Message -----

Subject: RSPPC Meeting February 2nd MONDAY Discussions on PSS Gen.3 and Shutter Mode Kirk Key Vote

Date: Mon, 02 Feb 2004 15:39:29 -0600

From: "James W. Lang" <jwl@aps.anl.gov>

Organization: Argonne National Laboratory - Advanced Photon Source

To: "James W. Lang" <jwl@aps.anl.gov>

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References: <4016CB0F.3090401@aps.anl.gov>

## PRESENT AT MEETING

Members:

G. Pile

J. Forrestal

M. Ramanathan

L. Moog

J. Vacca

D. Haeffner

G. Banks

J. Hawkins  
P.K. Job

Also in attendance:  
J. Carwardine  
R. Emerson

Roy Emerson Gave an Overview of PSS Generation 3.  
Gen Three is an update of existing PSS systems which will utilize 2 safety chains and an administrative chain.

Reasons for the upgrade were outlined in the presentation and include Technical, Administrative and Hardware availability.

The upgrade will undergo external review in March of 2004. and has been through several APS internal presentations and reviews.

Gen 3 will be utilized on all new beamlines and efforts will be made to integrate aspects of Gen three into existing beamlines which currently utilize Gen 1 or 2.

John Hawkins presented the committee with a proposal that the Generation 3 Mode Shutter Kirk Key Lock interface be placed into the administrative chain of Gen three. It was noted that The shutters are still monitored through redundant safety chains. And that although the location of the chain that monitors the key location changes, the key remains in use. The issue is that the key will be in the administrative chain which will most likely not undergo the extensive validation and verification requirements of the 2 safety chains.

Following discussions a vote was taken of the committee that:

1 Placing the Mode Shutter kirk key system in Generation 3's administrative chain does not contradict chapter 4.2.6.3.1.2 of the SAD which states "A stop may have its position changed during a change of mode in which case it is controlled through use of Kirk keys or similar lockout devices".

2 Monitoring the kirk key location through the administrative (non-safety) chain "C" is the equivalent of administrative control.

The committee voted to approve

James W. Lang wrote:

> RSPPC Meeting Monday February 2nd 10:00-11:30 B4100

>

> The ASD-IS group is requesting a meeting of the RSPPC to inform the  
> committee of the changes being planned and engineered for a new version  
> of the PSS system (Version 3) which will extract non safety critical  
> functions from the two existing safety chains and move them to a third  
> chain. Examples of such non-critical functions include interfaces to  
> operator panels with buttons and indicators.

>

> A formal independent review of PSS Version 3 will be held in March. The  
> committee will include members of the RSPPC.

>

> Following the presentation, ASD-IS is requesting a review and vote by  
> the committee for approval to change a specific engineering detail on  
> the PSS Generation 3 that is associated with monitoring the status of  
> beamline Mode Shutter kirk key position. IS would like to place this  
> function into the 3rd none critical chain. "See attached"

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